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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

s: Baker et al.

Docket No:

39780-2830P1C9

Serial No:

10/006,485

Group Art Unit:

1647

Filed:

December 6, 2001

Examiner:

Rachel B. Kapust

For:

SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC

ACIDS ENCODING THE SAME

Commissioner for Patents Washington, D.C. 20231

DECLARATION OF LUC DESNOYERS, Ph.D. UNDER 37 CFR 1.131

I, Luc Desnoyers, Ph.D. declare and say as follows:

- 1. I am scientist at the Molecular Oncology Department of Genentech, Inc., South San Francisco, CA 94080.
- 2. I am one of the inventors of the above-identified application.
- 3. I have read and understood the claims pending in this application, and I am aware that the claims have been rejected as anticipated by International Patent Application Publication No. WO 00/00610 (Lal *et al.*, publication date January 6, 2000).
- 4. I, along with other inventors of this application, conceived and reduced to practice the invention claimed in the above-identified application in the United States prior to January 6, 2000.
- 5. At the time the present invention was made I was, as still am, responsible for overseeing the testing of novel polypeptides, including the polypeptide designated PRO1412, in chondrocyte proliferation assay (Assay #111, Example 153). This assay is used to find agents that are capable of inducing chondrocyte proliferation and/or redifferentiation, and can, therefore, be used in the treatment of joint diseases using a tissue engineering approach or as promising drug candidates to repair aging or arthritic joints, for example, in which the chondrocytes have been dedifferentiated.
- 6. In this assay, isolated chondrocyte cells are seeded in 96 well plates with either serum-free medium (no treatment control), or serum-free medium containing the test

PRO polypeptide. After 5 days, fluorescence dye is added to each plate and measured. A positive result in the assay is obtained when the fluorescence of the PRO polypeptide-treated sample is 1.2 fold or higher than the no treatment control. This type of fluorescence determination, wherein the readout is compared to a no

treatment control, is well known in the art.

7. A copy of a page from the Genengenes database which reports a positive result for the PRO1412 polypeptide encoded by DNA 64897-1628 (UNQ730) in Assay #111 is attached to this declaration (with its date redacted) as Exhibit A. The positive results reported in the database were also obtained prior to January 6, 2000.

8. Copies of pages from laboratory notebook showing the positive results for the PRO1412 polypeptide (SEQ ID NO:140), identified by Pin number PIN753-1, in Assay,#111 are attached to this declaration (with dates redacted) as Exhibit B. These experiments were performed and the results were obtained prior to January 6, 2000.

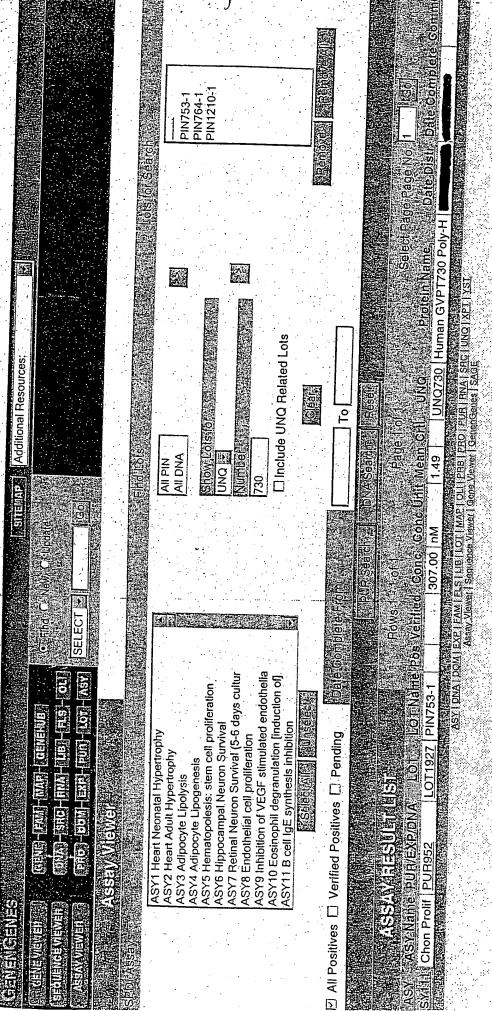
9. Exhibits A and B clearly show that the polypeptide designated PRO1412 was tested, and its ability to induce the proliferation and/or redifferentiation was determined prior to January 6, 2000.

10. I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information or belief are believed to be true, and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful statements may jeopardize the validity of the application or any patent issued thereon.

Luc Desnoyers

03/25/2004 Date

SV 2013475 v1 3/24/04 1:52 PM (39780.2830)



GenenGenes Feedback

Primary Assay Result Assay ID Assay Name Assay Date

ASY111 Chondrocytes Proliferation Assay

XXXXXX-XX

Notebook Num	XXXXXX-XX											1 441
	1%	1%	1%	1 1%	1%	1%	1%	1%	1%	1%	178	1%
	- · · · · ·	7	3	1	5	6	7	8	9	10	11,	12
	Staurosoorin	Staurgsporin	Staurosponn	PIN717-1	PIN721-1	PIN726-1	PIN730-1	PIN734-1	PIN738-1	PIN742-1	PIN746-1	PIN750-1
Ê	Media	Media	Media	7							PIN747-1	PtN751-1
Ċ	PIN708-1	PIN711-1	P1N714-1	PIN718-1	PIN722-1	PIN727-1	. PIN731-1	PIN735-1	. PIN739-1	PIN743-1 .	PINTATAL	PIN/31-1
P	PIN709-1	PIN712-1	PIN715-1	PIN719-1	PIN724-1	PIN728-1	PIN732-1	PIN736-1	PIN740-1	PIN744-1	PIN748-1	PIN752-1
Ē		0017474	PIN716-1	PIN720-1	PIN725-1	PIN729-1	PIN733-1	PIN737-1	PIN741-1	PIN745-1	PIN749-1	PIN753-1
G	PIN710-1	PIN713-1	PIN/16-1	PIN720-1	P1R13 23-1	F187 23-1	F 1147 33-1	1				

PASTE YOUR RAW DATA BELOW

			1			- 6	7	- 8	9	10	<u> 11</u>	12	1
 				100.4	173.2	166.5	166.5	103.1	74.4	88.0	155.6	62.1	1
•	55.1	67.1	84.4	144.4	98,6	103.6	115.8	75.5	89.3	104.1	78.5	119.8	1
1 1	81.1	159.7	89.5	89.1	68.5	64.9	60.4	56.6	67.5	58.6	63.7	107.2	١.
Ç.	85.4	91.8	75.6	70.8	54.7	37.2	60.3	56.4	70.9	75,3	79.5	119.6	1
0	54.6	73.5	58.0	71.4	55.9	51,1	59,7	47.5	74.3	72.1	52.5	175.3	i .
	102.9	102.3	80.7	131.8	84.7	83.8	78.2	66.8	58.8	81.4	84.5	180,5	4
	69.9	125.9	159.3	105.5	77.5	57.6	64.6	73.5	77.2	64.9	182.5	183.7	14
5	116.0	102.0	192.0	193.6	161.4	124.0.	128.4	125.7	95.4	137.9	172.1	139.5	۱,
	144.3	102.0	102.0	1									

Control		Fluorescence
Staurosporin	•	84.5
Media		108,4

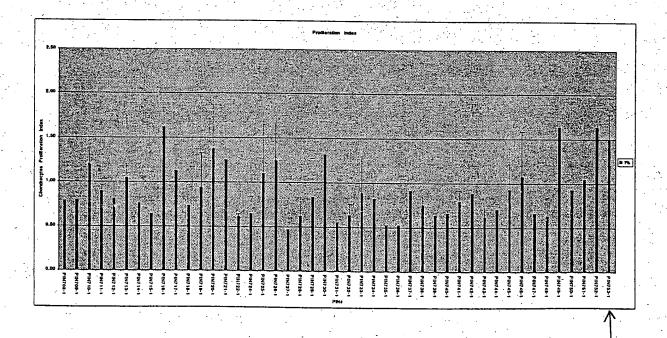
Conc	1 1		1.00%				
PIN #	N1	N2	AVERAGE	STDEV	Positive	Verified	Comments
P1N708-1	0.788	0,780	. 0.784	0.0			
PIN709-1	0.949	0.645	0.797	0.2			
P!N710-1	1.070	1.331	1.201	0.2	1 .		1 1 m 1 m 1 m
PIN711-1	0.847	0.945	0.896	0.1			
PIN712-1	0.678	0,944	0.811	0.2	1000000		
PIN713-1	1,162	0.941	1.052	0.2	1		1 1
PIN714-1	0.826	0.697	0,762	0.1			
PIN715-1	0.535	0.744	0.640	0.1		1	
PIN716-1	1,469	1,771	1.620	0.Z	Positive		
PIN717-1	0.926	1,333	1.129	0.3	1		
PIN718-1	0.822	0.653	0.738	0.1			
P!N719-1	0.659	1,216	0.938	0.4	1 .	1	1
PIN720-1	0.973	1,756	1,380	0,6	Positive	1	1
PIN721-1	1.596	0.910	1.254	0.5			1
PIN722-1	0.632	0.597	0,614	0.0		5.4	
	0.515	0.781	0.648	0.2		1	1
PIN724-1	0.715	1.489	1,102	0.5		1 * 1.	
PIN725-1		0.956	1.246	0.4	1 1 2		
PIN726-1	1.537		0.471	0.2		1	1
PIN727-1	0,599	0.343	0.623	0.2	1	1 '	
PIN728-1	0.471	0.774			3.37		
PIN729-1	0.532	1,144	0,838	0.4	L		1
PIN730-1	1.538	1,098	1,317	0.3	Positive	1	4
PIN731-1	0.557	0.556	0.557	0.0			
PIN732-1	0.551	0.722	0.636	.0.1	4.3	1 .	1
PIN733-1	0.595	1,184	0.890	0,4	1	1 .	
PIN734-1	0.951	0,697	0.024	0.2	.~	1 .	
P1N735-1	0.522	0,520	0.521	0.0	1	1	
PIN736-1	0.438	0,617	0.527	0.1	1 ,	1.	1
PIN737-1	0.678	1.159	0.919	0.3	1		
PIN738-1	0.586	0.524	0.755	0.1			
PIN739-1	0.624	0.654	0.639	0.0	4.1		
PIN740-1	0.685	0.535	0.660	0.0		1	
PIN741-1	0.712	0.560	0.798	0.1			1.
PIN742-1	0.812	0.961	0.886	a.i .	i	1	
PIN743-1	0.541	0.695	0,618	0.1		1	i I
	0.665	0.751	0,708	0.1	11	· ·	1 .
PIN744-1	0.599	1,272	0.935	0.5	197		i .
PIN745-1	1.436	0.724	1,000	0.5		1.	1
PIN746-1			0.661	0.1			
PIN747-1	0.588	0.733	0,633	0.2		1	1
PIN748-1	0,484	0.781			Positive	1.1	
PIN749-1	1,584	1.588	1.636	0.1	LOSIONA .	1.	1
PIN750-1	0.757	1.105	0,931	0.2		.1 `	
PIN751-1	. 0.989	1.104	1,046	0.1	.1	1	4
PIN752-1	1.515	1.665	1.642	0.0	Positive	1 '	-1
PIN753-1	1.695	1.287	1,491	0.3	Positive		

Witnessed & Understood by me,

Date

Invented by Becorded by . Date

PINE	Average	STOEV
PIN708-1	0,78	0.0
PIN709-1	0.80	0.2
PIN710-1	1.20	0.2
PIN711-1	0.90	0.1
PIN712-1	0.81	0.2
PIN713-1	1.05	0.2
PIN714-1	. 0.76	·*0.1
PIN715-1	0.64	0,1
PIN716-1	1.62	0.2
PIN717-1	. 1.13	0.3
PIN718-1	0.74	0.1
PIN719-1	0.94	0.4
PIN720-1 .	1.38	0.6
PIN721-1	1.25	0.5
PIN722-1 \	0.61	0.0
PIN724-1	0.65	0.2
PIN725-1	1.10	0.5
P1N726-1	1.25	0.4
PIN727-1	0.47	0.2
PIN728-1	0.62	0.2
PIN729-1	0.84	0.4
PIN730-1	1.32	0.3
PIN731-1	0.58	0.0
PIN732-1	0.64	0.1 *
PIN733-1	0.59	0.4 "
PIN734-1	0.62	0.2
PIN735-1	0.52	0.0
PIN738-1	0.53	0.1
PIN737-1	0.92	0.3
PIN738-1	0.76	0.1
PIN739-1	0.64	0.0
PIN740-1	0.66	0.0
PIN741-1	0.80	0.1
PIN742-1	0.89	0.1
PIN743-1	0.62	0.1
PIN744-1	0.71	0.1
PIN745-1	0.94	0.5
PIN746-1	1.08	0.5
PIN747-1	0.66	0.1
PIN748-1	0.63	0.2
PIN749-1 `	1.64	0,1
PIN750-1	0.93	0.2
PIN751-1	1.05	0.1
PIN752-1	1.64	0.0
PIN753-1	1 1.49	0.3



lessed & Understood by me,

Date

Invented by Recorded by

Date